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House Trument No. 401

THE THIRTY-FIRST AND THIRTY-SECOND ANNUAL REPORTS OF THE BOARD OF ACTUARIES OF THE CIVIL SERVICE RETIREMENT AND DISABILITY FUND FOR THE FISCAL YEARS ENDED JUNE 30, 1951

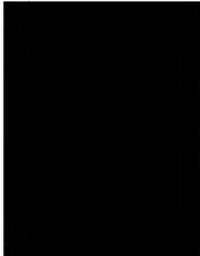
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#### **HOUSE RESOLUTION 423**

IN THE HOUSE OF REPRESENTATIVES,

January 27, 1954.

It there be printed as a House document the Thirty-second Annual Reports of the Board of Actuaries of
e Retirement and Disability Fund for the fiscal years
1951, and June 30, 1952.

#### LETTER OF SUBMITTAL

NEW YORK CITY, May 23, 1952.

United States Civil Service Commission,

Washington, D. C.

Ladies and Gentlemen: The Board of Actuaries, appointed under section 16 of the act of May 22, 1920, for the retirement of employees in the civil service of the United States, has the honor to submit herewith its 31st annual report on the operation of the fund.

In accordance with the practice of the Board in the past, the report gives a statement of the appropriation required of the Government under the Retirement Act, as amended, on the basis of the estimated membership of the fund as of June 30, 1951.

Respectfully submitted.

GEO. B. BUCK, R. R. REAGH, C. W. KROLL, Board of Actuaries, Civil Service Retirement and Disability Fund.

#### THIRTY-FIRST ANNUAL REPORT OF THE BOARD OF ACTU-ARIES OF THE CIVIL SERVICE RETIREMENT AND DISABILITY FUND

The civil service retirement and disability fund was established in 1920 to furnish retirement benefits to officers and employees of the United States Government who become superannuated in governmental service, or incapacitated before attaining old age. The Retirement Act makes provision for a Board of Actuaries of the Civil Service Retirement Act and in section 16 defines the chief duties of the Board to be as follows:

\* \* \* to annually report upon the actual operations of this Act, with authority to recommend to the Civil Service Commission such changes as in their judgment may be deemed necessary to protect the public interest and maintain the system upon a sound financial basis, and they shall make a valuation of the "civil-service retirement and disability fund" at intervals of five years, or oftener if deemed necessary by the Civil Service Commission; they shall also prepare such tables as may be required by the Civil Service Commission for the purpose of computing annuities under this Act. \* \*

This report, which has been prepared as of June 30, 1951, is the 31st annual report of the Board of Actuaries. The report gives first a summary of the main benefit and contribution provisions of the act as amended to June 30, 1951. Then statements are included regarding the active and retired membership. Next the estimated appropriation recommended for payment by the Government on the basis of the estimated membership as of June 30, 1951, is given. This is followed by a statement giving the results of a valuation of the liabilities of the fund on account of annuities in force on the roll as of June 30, 1951. Finally a brief account of the mortality experience of annuitants for the past year is given, together with certain comments by the Board on the past year's operations.

Summary of Benefit and Contribution Provisions of the Civil Service Retirement and Disability Fund

There were no amendments made during the past year which affect the main benefit and contribution provisions of the fund. The following summary states the main benefit and contribution provisions of the act, as they were interpreted by the Board of Actuaries.

#### BENEFITS

Service retirement

Condition for eligibility.\(^1\)—Retirement is compulsory at age 70 after 15 years of service.

Retirement is permissible at the option of the employee at age 60 after 30 years of service or at age 62 after 15 years of service.

<sup>&</sup>lt;sup>1</sup> Certain employees who have rendered 20 years of service in the investigation, apprehension, or detention of persons suspected or convicted of offenses against the criminal laws of the United States are eligible to retire after age 50 and receive an annuity of 2 percent of average basic salary for any 5 consecutive years multiplied by the number of years of service not exceeding 30 years.

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At the option of the employee at age 55 after 30 years of service or upon involuntary separation not due to misconduct or delinquency after 25 years of service, an immediate annuity is payable equal to the regular annuity reduced by one-quarter percent for each month the employee is under age 60.

Amount of benefit. The annuity is determined by 1 of 2 plans, whichever provides the larger benefit:

Plan I. An annuity equal to 1½ percent of average annual basic salary 3 for each year of service but no such annuity is to exceed 80

percent of average annual basic salary.3

Plan II. An annuity equal to 1 percent of average annual basic salary 3 plus \$25 for each year of service, but no such annuity is to exceed 80 percent of average annual basic salary.3

Disability retirement

Condition for eligibility.—Retirement is permissible upon disability after 5 years of civilian service.

Amount of benefit.—The benefit is determined by the same method

as used for service retirement.

Any compensation for disability paid from the United States employees' compensation fund is deducted from the annuity benefit payable on account of the same disability.

Discontinued service retirement

Condition for eligibility.—Upon separation from service after 5 or more years of civilian service, a deferred annuity is payable.

Amount of benefit.—The deferred annuity begins at age 62 or at

age of separation, if later, and is computed by the same method as the regular annuity but without choice of a joint and survivorship option. If the employee has less than 20 years of civilian service, he may elect to receive his contributions with interest at 4 percent to December 31, 1947, and 3 percent thereafter to date of separation in lieu of the deferred annuity.

Return of contributions upon withdrawal from active service

Return of total contributions is made upon withdrawal from active service before 5 years of civilian service. Interest at 4 percent to December 31, 1947, and at 3 percent thereafter is allowed if service is in excess of 1 year.

Return of contributions on death before retirement

On death before 5 years of civilian service or after 5 years of civilian service when there is no survivor entitled to an annuity, return of total contributions is made with interest at 4 percent to December 31, 1947, and 3 percent thereafter to date of death of the employee.

Return of contributions on death before commencement of payment under a deferred annuity

Return of total contributions is made upon death before commencement of deferred annuity. (Interest is allowed at 4 percent to December 31, 1947, or to date of separation, whichever is earlier, and 3 percent thereafter to date of death.)

<sup>&</sup>lt;sup>2</sup> An additional annuity of \$36 for each year of certain specified service in Alaska or on the Isthmus of Panama is allowed officers and employees who are citizens of the United States.

<sup>1</sup> "Average annual basic salary" is used to denote the average annual basic salary received by the employee during any 5 consecutive years of allowable service at the option of the employee.

Return of contributions upon death after retirement

Upon death before the payments of the annuity amount to contributions (with interest at 4 percent to December 31, 1947, and 3 percent thereafter to date of retirement) the difference is paid, unless there is a survivor entitled to an annuity.

Annuities to dependents upon death in active service

Condition for eligibility. - Annuities to dependents are paid upon death of an employee in active service after 5 years of civilian service.

Amount of benefit.—(a) If survived by a widow, an annuity beginning the first of the month following the death of the employee or widow's attainment of age 50, whichever later, equal to one-half regular annuity is payable to the widow until death or remarriage.

(b) If survived by a widow and a child or children, in addition to

(a). an immediate annuity equal to one-half regular annuity to the employee is payable to the widow until death, remarriage, or attainment of age 50. Also an immediate annuity equal to one-fourth of the regular annuity, not in excess of \$900 divided by the number of children, or \$360, whichever is lesser, is payable to each child.

The annuity payable to a child is terminated upon attainment of

age 18, marriage, or death, whichever is earlier.

(c) If survived by a child or children and there is no widow or widower, an immediate annuity equal to one-half regular service annuity, not in excess of \$1,200 divided by the number of children, or \$480, whichever is lesser, is payable to each child until attainment of age 18, marriage, or death, whichever is earlier.

Upon death of the widow, the annuity payable under (b) to a child

or children is recomputed and paid as provided in (c).

Upon termination of the annuity of a child, the annuities to other children are recomputed as though the child whose annuity was terminated had not survived the employee.

Optional benefits

At retirement a married employee may elect to receive in lieu of his or her regular annuity a reduced annuity payable during the employee's life and an annuity payable to the surviving widow or widower equal to 50 percent of the regular annuity before reduction. The annuity to the survivor commences upon the employee's death or the survivor's attainment of age 50, whichever is later, and ceases upon death or remarriage. The reduction in the employee's annuity is 5 percent of so much of the regular annuity as does not exceed \$1,500, plus 10 percent of any excess over \$1,500, plus three-fourths of 1 percent for each year the spouse lacks of being age 60 at the date of retirement, but in no case shall the reduced annuity be less than 75 percent of such regular annuity.

At service retirement any unmarried employee in good health may elect to receive in lieu of his regular annuity a reduced annuity payable during his life and an annuity payable after his death to a survivor annuitant equal to 50 percent of such reduced annuity and, upon death of a survivor annuitant, all payments cease. The annuity payable to the employee is as follows: 90 percent of life annuity if survivor is same age or older or is less than 5 years younger than annuitant; 85 percent of life annuity if survivor is 5 but less than 10 years younger than annuitant; 80 percent of life annuity if survivor

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is 10 but less than 15 years younger than annuitant; 75 percent of life annuity if survivor is 15 but less than 20 years younger than annuitant; 70 percent of life annuity if survivor is 20 but less than 25 years younger than annuitant; 60 percent of life annuity if survivor is 25 or more years younger than annuitant.

Annuities to dependents upon death after retirement

Benefits to widows with children and to children upon death of annuitants are similar to those payable upon death of employee in active service, except that benefits are based on regular annuity paid to annuitant and the annuity payable to the widow with a child or children terminates upon death, remarriage, or attainment of age 50, unless an optional benefit was selected by annuitant. No benefits are payable to dependents of annuitants retired on account of discontinued service.

Benefits to annuitants retired prior to April 1, 1948

Benefits to annuitants retired prior to April 1, 1948, were increased by 25 percent or by \$300, whichever was less, provided any such annuitant could, prior to April 1, 1948, elect to retain his or her present annuity in lieu of the increased annuity and provide that one-half of such present annuity, but not to exceed \$600, be continued to his wife or her husband until death. Effective September 1, 1950, the annuities of those who in 1948 elected survivor benefits were increased as stated above. Survivor benefits, as previously described, were granted those who in 1948 elected the increase, applicable in any case where death occurs after April 30, 1948, but no survivor annuity was payable for any period prior to September 1, 1950.

No change was made in deferred annuities payable to employees separated from service prior to April 1, 1948.

#### CONTRIBUTIONS

By employees

Employees pay 6 percent of salary commencing July 1, 1948.

Any employee may at his option and under regulations prescribed by the Civil Service Commission deposit additional sums in multiples of \$25 but not to exceed 10 percent of his annual salary for service rendered since August 1, 1920, for the purchase of an additional annuity.

By Government

Annual appropriations required in addition to employees' contributions to support the plan are to be made by the Government.

ESTIMATED ACTIVE MEMBERSHIP AS OF JUNE 30, 1951

The active membership of the fund as of June 30, 1951, was estimated by the Civil Service Commission to consist of 1,767,000 employees with an annual payroll of \$6,723,435,000.

Annuitants on the Roll as of June 30, 1951

The following table summarizes the number and amount of annuities in force on June 30, 1951, classified according to cause of retirement for each sex, as shown by the records of annuitants maintained

by the Civil Service Commission. On pages 10 to 15 of this report, the distributions of the number and annuities of annuitants on the roll as of June 30, 1951, are given for each sex according to ages as of that date. The tabulations show survivors of deceased employees and survivors of deceased annuitants separately.

Table 1.—The number and annuities of annuitants on the roll June 30, 1951

Group	Regula	r annuities	Voluntary	annuities a	Total annui-
Group	Number	Amount	Number	Amount	ties
Retired on account of age and voluntary and involuntary separation: Men	102, 892 17, 853	\$130, 276, 396 18, 839, 067	1, 552 508	\$436, 514 86, 806	\$130, 712, 910 18, 925, 873
Total	120, 745	149, 115, 463	2,060	523, 320	149, 638, 783
Retired on account of disability:  Men Women	35, 463 10, 472	33, 997, 909 9, 124, 765	285 126	43, 148 14, 088	84, 041, 057 9, 138, 853
Total	45, 935	43, 122, 674	411	57, 236	43, 179, 910
Survivors of deceased employees: Widows under sec. 12 (c) (1) Widows under sec. 12 (e) (2) Children under secs. 12 (e) (2) and (3)	6, 835 2, 865 6, 342	3, 994, 424 1, 220, 040 1, 192, 116			3, 994, 424 1, 220, 040 1, 192, 116
Total	16,042	6, 406, 580			6, 406, 580
Survivors of deceased annuitants: <sup>1</sup> Widows under sec. 12 (c) (2) Widows other than under sec. 12 (c) (2) Children under secs. 12 (e) (2) and (3) All others:	291 13, 039 759	140, 664 6, 577, 773 164, 138			140, 664 6, 577, 773 164, 138
Men Women	288 49	92, 944 20, 325			92, 944 20, 325
Total	14, 426	6, 995, 844			6, 995, 844
Grand total	197, 148	205, 640, 561	2, 471	580, 556	206, 221, 117

<sup>&</sup>lt;sup>1</sup> Includes voluntary annuities continued to survivors.

#### COST OF BENEFITS PAYABLE UNDER FUND

Each employee pays 6 percent of his compensation into the fund. The amounts so contributed are credited to the employee's individual account and, if he leaves service or dies before he has completed 5 years of civilian service, his total credits with interest are returned to him or to his beneficiary. If an employee leaves service after completing 5 years but before 20 years of civilian service, he may elect to have his contributions returned to him with interest, or, in lieu thereof, he may apply for a deferred annuity beginning at age 62 computed by the same method as a regular annuity but without choice of a joint and survivorship option. If he leaves after 20 years of civilian service, he is paid a deferred annuity beginning at age 62 computed by the same method as a regular annuity but without choice of a joint and survivorship option. When the employee qualifies for retirement, he receives the stipulated retirement allowance based on his service and salary and if he dies before the payments of this allowance are equal to his contributions with interest to the retirement date, the balance is paid to his beneficiary or estate unless there are survivors entitled to an annuity.

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The Retirement Act does not set a definite percentage contribution rate to be paid by the Government but provides that an estimate of the appropriation necessary to finance the fund be submitted each year to the Bureau of the Budget. Two annual contributions are payable to the fund, namely, a "normal" contribution and a "deficiency" contribution. The normal contribution rate is the average percentage of the salaries of all new employees that is required to be paid into the fund from the time they enter service until they leave service in order to accumulate sufficient funds to pay their benefits. Part of this normal contribution is met by the employees' contributions and the remainder represents the normal contribution rate of the Government. The deficiency contribution is required because at the time of the establishment of the fund, employees then in service were given credit for their prior service during which no contributions had been made by the Government. Therefore, there was an accrued liability or deficiency to be met by the Government at that time. Further increases in the deficiency have come about through changes in the benefit provisions, through the addition of new groups of employees to whom credit for service rendered prior to their admission was allowed, and through the fact that the Government's appropriations have not been sufficient to meet the current costs of the fund.

Annual Appropriations of Government on Basis of Estimated Payroll as of June 30, 1951

In accordance with the procedure followed in previous reports, the Board has prepared the following statement as of June 30, 1951, which gives an estimate of the appropriation required of the Government on the basis of the estimated payroll of the membership as of that date. The estimate is based on the cost of the amended act as prepared by the Board of Actuaries in cooperation with the Civil Service Commission.

Table 2.—Estimated annual contributions required to support the Civil Service Retirement and Disability Fund prepared as of June 30, 1951

	Normal cost as—		Deficier	icy cost as—	Total cost as—	
Contribution	Percent- age of payroll	Annual amount	Percent- age of payroll	Annual amount	Percent- age of payroll	Annual amount
Total	8. 78	\$590, 317, 593	2. 90	\$194, 979, 615	11.68	\$785, 297, 208
Payable by employees Payable by Government	6. 00 2. 78	403, 406, 100 186, 911, 493	2. 90	194, 979, 615	6. 00 5. 68	403, 406, 100 381, 891, 108

The preceding table shows the normal cost to support the benefits accruing on account of current service to be equivalent to 8.78 percent of payroll. The employees contribute 6 percent toward the normal cost and, therefore, there remains 2.78 percent to be paid by the Government. On the basis of the estimated payroll as of June 30, 1951, this represents an annual payment of \$186,911,493. The deficiency cost, or the annual cost due to the accrued liability, is shown by the table to be \$194,979,615. This entire deficiency contribution is a



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liability of the Government. Therefore, the total annual contribution recommended for payment by the Government on the basis of the estimated payroll as of June 30, 1951, is \$381,891,108. The actual appropriation for the fiscal year 1952 was approximately \$313,500,000. The normal percentage rate of contribution of 2.78 percent was developed and approximately \$313,500,000.

The normal percentage rate of contribution of 2.78 percent was developed on the basis of the valuation as of September 30, 1947, prepared by the Civil Service Commission, with an adjustment estimated to cover the increased cost due to the optional benefits as amended by Public Law 310, effective September 30, 1949. The deficiency rate of 2.90 percent represents the percentage of payroll as of June 30, 1951, which produces 4 percent interest on the estimated deficiency as of that date. This is the minimum payment which will keep the principal amount of deficiency from increasing. The amount of annual deficiency payment is greater than that shown in last year's report because the payment made during the year was less then interest at 4 percent on the deficiency. Hence the deficiency increased during the year so that a larger payment is needed for the current year to provide the accruing interest. The percentage rate of payment of 2.90 percent is less than the corresponding rate last year because the payroll of members to which the rate is applied has increased with the result that a lower percentage of payroll will meet the minimum payment.

Liabilities of Fund on Account of Annuitants on the Roll as of June 30, 1951

A valuation of the liabilities of the fund on account of annuitants on the roll as of June 30, 1951, was prepared and the results of the valuation are summarized in table 3 below. The mortality tables used for the valuation were those used in the quinquennial valuation made as of June 30, 1940. These tables are given in the 22d annual report of the Board and therefore have not been reproduced in this report.

Table 3.—Liabilities on account of annuitants as of June 30, 1951

0	Present value of benefits to annuitants on the roll				
Group	Regular annuities	Voluntary annuities	Total annuities		
Retired on account of age and voluntary and involuntary separation. Retired on account of disability. Reversionary annuities to designated beneficiaries 1. Survivorship annuities 1.  Total	\$1, 217, 820, 360 438, 131, 583 201, 873, 391 152, 582, 170 2, 010, 407, 504	\$4, 992, 482 651, 672 5, 644, 154	\$1, 222, 812, 842 438, 783, 255 201, 873, 391 152, 582, 170 2, 016, 051, 658		

Includes voluntary annuities.

In the 30th annual report of the Board, the liabilities on account of annuities payable to annuitants on the roll as of June 30, 1950, were shown to be \$1,780,220,393, as compared with \$2,016,051,658 as of June 30, 1951, or an increase in liabilities of nearly \$236 million during the last year.

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SUMMARY OF MORTALITY EXPERIENCE OF ANNUITANTS FOR THE YEAR ENDED JUNE 30, 1951

For the purpose of making a check of the mortality tables for annuitants, the actual and expected number of deaths and of annuities canceled by death during the past year were prepared separately for men and women who had retired on account of age, voluntary and involuntary separation from service, and for men and women who had retired on account of disability. The following table summarizes the results of the comparison.

Table 4.—Summary of the comparisons of the actual and expected deaths among annuitants, July 1, 1950, to June 30, 1951

	Nı	ımber of dea	ths	Annuities terminated by deaths			
Group	Actual	Expected	Difference	Actual	Expected	Difference	
Employee annuitants retired on account of age, voluntary and involuntary separation:  Men	5, 448 511 2, 286 403	5, 492. 0 641. 0 1, 502. 0 337. 0	+44.0 +130.0 -784.0 -66.0	\$6, 967, 308 517, 925 2, 186, 948 340, 243	\$7,015,541 663,680 1,400,139 284,526	+\$48, 233 +145, 755 -786, 809 -55, 717	

¹ The expected cases of disability are calculated on an aggregate rather than a select table, which tends to show a more favorable experience than would be indicated if select tables were used, due to the sizable increase in the number of annuitants in recent years. However, the last test of the mortality of deceased annuitants indicated that the difference in mortality by duration did not, in the opinion of the board, justify the use of select tables.

A check of the mortality tables used for widows was also prepared this year. The following table summarizes the comparison.

Table 5.—Summary of the comparisons of the actual and expected deaths among survivor annuitants July 1, 1950, to June 30, 1951

g	Nt	mber of dea	ths	Annuities terminated by deaths		
Group	Actual	Expected	Difference	Actual	Expected	Difference
Widows under secs. 12 (c) (1) 12 (c) (2) Widows under sec. 4 (b) Widows under sec. 8	78 19 256	102. 6 20. 3 269. 8	+24.6 +1.3 +13.8	\$46, 944 13, 188 130, 216	\$57, 605 17, 376 131, 429	+\$10,661 +4,188 +1,213
Total	353	392.7	+39.7	190, 348	208, 410	+16,062

#### COMMENTS ON ANNUITANTS' EXPERIENCE

The actual experience of annuitants during the year ended June 30, 1951, has been compared with the experience of previous years and the following points noted.

In general, the actual experience of annuitants during the year ended June 30, 1951, followed the trend of previous years. In the case of pensioners retired on account of age or voluntary separation, the actual death rates are proving less than the expected rates. In the case of men, the actual number and annuities canceled by death were only slightly under the expected, and there was very little change over that shown last year in the deviation of actual experience from the expected. However, in the case of women, the departure of the actual



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experience from the expected was more pronounced, and the difference was more marked in the year ended June 30, 1951, than in the previous year, indicating a decreasing rate of mortality among women. The experience to date indicates that more conservative mortality tables will probably be required for service pensioners.

With respect to employees retired on account of disability, the actual

deaths during the past year exceeded the expected deaths and the actual annuities terminated by death exceeded the expected annuities by a wide margin. This condition is consistent with past experience.

The actual deaths among widows and the annuities canceled by death were less than expected during the past year. However, the experience to date for widows is limited, and no conclusions can be reached regarding the use of the present tables until more experience. reached regarding the use of the present tables until more experience has accumulated.

CONCLUSION

During the past year there was no legislation adopted which affected the general structure of the retirement system. However, certain amendments proposed under Senate bill 995, 82d Congress, have been amendments proposed under Senate bill 995, 82d Congress, have been under consideration, and under date of July 11, 1951, the Board of Actuaries prepared a report giving an estimate of the cost of the proposed amendments and commenting on the provisions of the bill. The Board has been particularly concerned with the provision of the proposed bill which would change the method of financing the fund from the reserve method heretofore followed. Under the present method, the Board determines each year the appropriation needed to support the fund on a sound reserve basis as described on pages 5 and 6 of this report. Under the method proposed, the annual appropria-6 of this report. Under the method proposed, the annual appropriao or this report. Under the method proposed, the annual appropriation would be the amount needed each year to make the balance in the fund equal to the sum of the total deductions and deposits in the fund for persons not retired plus the total present value of all future payments to persons then on the retirement roll. This would mean that the liabilities to be met by the Government on account of active members would not be covered as they rendered the service that gives rise to such liabilities, but would be deferred to be met by future rise to such liabilities, but would be deferred to be met by future generations of taxpayers or by a reduction in annuities should appropriations not be made to pay them.

The Board is glad to report that the Civil Service Commission supports its viewpoint that the standard full reserve method of financing should be employed. Under the reserve method the true cost of benefits is taken into account and provision made for meeting the cost during the active service of the members. When the Retirement Act is amended to liberalize benefits, the cost of the new benefits is immediately reflected in the appropriations required for the support of the fund if the full reserve method of financing is used. The Congress then knows to what extent it is committing taxpayers to pay for benefits and employees know that present assets are not being dissipated so as to impair the payment of their future annuities. The reservement of the payment of sound retirement plans for reverse method is used by the majority of sound retirement plans for governmental employees in the various States, and it has been proved to offer the best protection both to members and to taxpayers. To members it gives assurance that their benefits will be paid when due and to taxpayers it gives assurance that no amendments are adopted

which carry a concealed cost to be met at some later date.

The quinquennial valuation of the system is due in 1952 but will probably have to be postponed because an appropriation to cover the

expenses of the valuation has not been made. The intent of the law is that an actuarial valuation of the fund should be made at least once in every 5-year period and oftener if deemed necessary by the Civil Service Commission. The Board feels that a valuation should be made in 1952 or as soon thereafter as the data can be collected. So many changes affecting the membership and their compensation have taken place since 1947 when the last valuation was made that it would seem that the Congress would want to have the results of an actuarial valuation to furnish the facts on which to base sound business judgment in considering the various changes in the act which are proposed.

The Board is advising with the Civil Service Commission in regard to the establishment of a central record system for the fund. As stated in previous reports, the establishment of a central record system is believed to be very important. It does not appear appropriate for the United States Government to maintain its own retirement system without adequate records, when it requires such records for private funds as a basis for obtaining Treasury approval for tax purposes. The Government should operate its own system with as much precision as similar funds in the various States and cities of the country are operated.

SUMMARY OF TABULATIONS OF ANNUITANTS' DATA

The following tables give the number of annuitants and their annuities as of June 30, 1951, distributed by age for men and women separately, which were used as a basis for the valuation.

Table 6.—The number and regular annuities of annuitants on the roll, classified by sex and age as of June 30, 1951—retired on account of age and voluntary and involuntary separations

		Men	7	Vomen .			Men	M	Vomen .
Age	Num- ber	Annuities	Num- ber	Annuities	Age	Num- ber	Annuities	Num- ber	Annuities
11	1 9 13 18 15 28 63 77 94 222 661 1, 805 1, 857 3, 149 4, 952 4, 952 6, 688 5, 688 5, 688 5, 688 5, 688 6, 394 6, 833 6, 184 6, 838 6, 184 6, 1	\$372 5,640 9,768 12,060 8,994 21,118 48,413 94,617 98,457 126,598 123,180 263,042 678,054 814,407 1,105,484 1,393,232 1,863,148 3,033,331 3,976,082 5,751,655 6,139,360 6,681,695 6,482,066 7,185,988 7,168,884 7,049,100 7,968,939 9,064,747 7,948,939 9,064,747 7,948,939	1 1 3 3 5 5 10 18 28 28 28 25 47 159 206 250 944 1, 025 1, 028 1,	\$1, 392 2, 340 4, 440 4, 480 9, 192 18, 922 32, 277 36, 647 37, 668 32, 928 56, 603 194, 484 220, 378 206, 402 276, 669 329, 713 494, 405 650, 761 1, 070, 288 1, 041, 468 922, 857 1, 070, 288 1, 041, 468 1, 050, 320 948, 705 1, 050, 320 948, 705 1, 060, 607 1, 132, 267 1, 050, 971	74	4, 543 4, 353 3, 681 2, 604 2, 386 1, 881 1, 648 1, 375 810 624 477 111 78 44 27 17 9 9 9 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	\$5, 897, 016 5, 579, 527 4, 703, 893 3, 983, 710 3, 341, 349 2, 983, 617 2, 402, 864 2, 101, 528 1, 733, 078 1, 389, 672 1, 061, 099 795, 382 592, 699 477, 626 376, 298 273, 645 176, 584 149, 701 96, 964 55, 272 26, 691 20, 823 9, 429 9, 4	726 691 585 510 400 377 269 219 182 119 82 65 51 29 28 12 11 9 4 4 5 3 3 3	\$775, 089 731, 277 595, 439 518, 368 428, 562 387, 044 268, 679 266, 848 210, 559 178, 709 135, 723 116, 770 78, 237 62, 314 45, 680 27, 781 14, 002 27, 781 14, 002 27, 781 14, 022 2, 792 2, 794 27, 546

TABLE 7.—The number and voluntary annuities of annuitants on the roll, classified by sex and age as of June 30, 1951—retired on account of age and voluntary and involuntary separations

	Men		W	Tomen		Men		w W	omen
Age	Num- ber	Annuities	Num- ber	Annuities	Age	Num- ber	Annuities	Num- ber	Annuities
50	3 1 4 100 111 26 24 4 30 32 566 82 108 117 106 127 110 95	\$844 74 1, 079 3, 268 3, 560 6, 213 7, 646 8, 466 8, 466 5, 379 13, 207 18, 635 30, 360 26, 772 35, 181 33, 448 21, 691	1 1 2 2 1 4 8 13 8 7 14 18 8 42 25 5 44 39 49 19 19	\$350 942 549 13 702 1, 315 8, 673 1, 755 1, 836 2, 345 7, 278 4, 923 7, 452 5, 100 9, 152 9, 152 9, 869 2, 902 5, 664	71	113 86 70 51 56 39 25 28 12 13 3 11 4 1	\$30, 431 28, 512 19, 961 16, 851 15, 164 13, 686 6, 703 8, 2662 4, 080 6, 553 5, 432 1, 860 97 3, 186 214	28 27 20 17 16 12 9 7 5 7 1	\$5, 107 4, 874 3, 362 2, 428 1, 228 1, 141 1, 150 1, 422 294

Table 8.—The number and regular annuities of annuitants on the roll, classified by sex and age as of June 30, 1951—retired on account of disability

	. 1	Men	V	Vomen		. 1	Men	w	omen
Age	Num- ber	Annuities	Num- ber	Annuities	Age	Num- ber	Annuities	Num- ber	Annuities
24	6 222 29 411 356 54 52 279 82 114 1123 1146 1107 2110 244 4289 279 330 350 350 499 794	\$444 1, 092 2, 808 1, 944 6, 176 8, 736 13, 953 11, 104 18, 983 19, 413 29, 806 32, 394 48, 015 54, 625 67, 681 120, 390 150, 482 111, 390 150, 482 114, 313 193, 807 234, 355 272, 611 316, 476 418, 154 428, 817 710, 231	2 5 5 5 5 13 11 12 13 22 22 21 1 21 32 34 4 37 70 95 88 103 104 147 226 214 239 4 339	\$564 1, 332 1, 224 1, 225 5, 824 3, 602 4, 009 4, 748 6, 704 8, 248 6, 561 12, 442 14, 763 18, 530 17, 303 23, 972 24, 811 36, 455 59, 624 69, 811 92, 050 99, 591 100, 795 232, 479 90, 597 170, 795 232, 479 300, 547	63	1, 713 1, 323 1, 128 843 689 601 611 567 535 490 429 356 223 166 135 89 58 60 46 21 15 7	\$1, 682, 115 1, 314, 642 1, 134, 203 983, 889 888, 931 711, 035 699, 427 600, 008 626, 998 605, 374 572, 315 516, 940 457, 291 374, 186 292, 777 219, 924 236, 702 179, 358 145, 820 89, 619 59, 193 60, 784 52, 510 29, 305 23, 686 12, 176 6, 538 8, 961 1, 246	395 341 350 336 235 229 207 217 217 3148 1103 107 81 113 115 15 15 15 17 34 27 34 27 34 27 34 27 34 34 34 34 34 34 34 34 34 34 34 34 34	\$366, 018 316, 522 316, 234 302, 383 255, 189 206, 122 212, 368 185, 421 182, 886 191, 638 191, 638 190, 734 363 27, 198 38, 833 27, 198 16, 844 11, 177 12, 464 11, 116 5, 744 966 7, 288
.63 .54 	1,079	1,013,019 1,203,582 1,571,784 1,817,922 1,927,821	382 351 420 446 438	343, 256 319, 707 384, 563 419, 180 413, 997	92 93 94 95 96	1 2	1,080 556 2,725	2 1 1	1, 16 74 1, 05
58 59	1,953 2,031 1,811	2,000,950 2,056,087 1,903,469	425 494 471	402, 368 453, 054 426, 013	97 98 99	1	283	1	84
62	1, 785 1, 748	1, 812, 351 1, 757, 431	431 460	392, 722 442, 774	Total	35, 463	33, 997, 909	10, 472	9, 124, 76

Table 9.—The number and voluntary annuities of annuitants on the roll, classified by sex and age as of June 30, 1951—Retired on account of disability



		Men	v	Vomen			Men	W.	omen
Age	Num- ber	Annuities	Num- ber	Annuities	Age	Num- ber	Annuities	Num- ber	Annuities
	1 1 1 1 2 3 2 4 6 5 5 7 7 8 5 11	\$25 3 14 173 59 152 268 303 608 508 209 195 322 858 630 949 949 649 1755	1 1 1 1 1 5 4 2 5 5	\$16 \$16 3 11 101 27 40 507 277 257 422	59	17 22 17 22 16 16 12 9 10 6 4 7 5 2 2 2 3 3 3 3 3 1	\$5, 023 3, 391 2, 649 3, 129 1, 891 1, 501 1, 444 1, 036 252 1, 035 138 459 434 2,77 1, 820 406 832 60	14 6 3 13 5 6 5 6 2 2 3 3 6 4 2 2 1	\$2, 21: 16: 16: 1, 06- 80: 73: 52: 58: 70: 12: 66: 1, 10: 35: 11: 47: 64
	17 16 16	1, 755 1, 925 2, 096 3, 736	5 7 4	756 1, 195 680	Total.	285	43, 148	126	14, 08

Table 10.—The number and annuities of survivor annuitants on the roll, classified by age as of June 30, 1951, survivors of deceased employees



		CHID	DREN		
Age	Number	Annuities	Age	Number	Annuities
Under 6 months.  1 year.  2 years.  3 years.  4 years.  5 years.  6 years.  7 years.  8 years.  10 years.  11 years.  12 years.  12 years.  13 years.  14 years.  15 years.  16 years.  17 years.  18 years.  19 years.  19 years.  10 years.  11 years.  12 years.  13 years.  14 years.  15 years.  16 years.  17 years.  18 years.  19 years.  19 years.  20 years.  21 years.	60 119 199 257 249 275 209 319 358 358 358 390 406 433 499 547 564 611 262	\$3, 228 9, 000 15, 552 38, 304 40, 860 42, 612 48, 240 52, 428 61, 848 65, 604 73, 212 80, 016 84, 160 84, 160 84, 160 84, 168 84, 168 84, 168 84, 168 84, 188 84, 188 85, 708 84, 188 84, 188 85, 288 828	23 years 24 years 25 years 26 years 27 years 28 years 39 years 30 years 31 years 32 years 33 years 34 years 35 years 36 years 37 years 38 years 39 years 31 years 40 years 41 years 41 years	11 68 50 83 44 22 63 55 55 13 4	\$980 3,156 1,176 2,448 1,116 1,488 1,824 816 2,032 528 1,596 636 1,380 1,308 312 636 1,176
22 years	7	1, 188	Total	6, 342	1, 192, 116

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Table 10.—The number and annuities of survivor annuitants on the roll, classified by age as of June 30, 1951, survivors of deceased employees—Con.

#### WIDOWS

Age	Number	Annuities	Age	Number	Annuities
8 years	. 2	\$420	53 years	577	\$298, 572
9 years.		348	54 years	462	257, 172
0 years		010	55 years	478	262, 304
llyears			56 years	493	265, 380
2 years		276	57 years	467	289, 092
		1,008		436	249, 408
3 years		1,152	58 years	418	
4 years		3,876	59 years		259, 620
5 years		2, 928	60 years	378	230, 328
6 years			61 years	320	202, 620
7 years		4,392	62 years	332	217, 260
Syears		7,044	63 years	300	190, 860
9 years	26	6, 168	64 years	197	125, 484
0 years		8, 508	65 years	186	113, 520
1 years		12, 636	66 years	171	111,060
2 years	[ 43	11,820	67 years	160	104, 472
3 years	67	20, 172	68 years	129	87,048
4 years	61	16, 404	69 years	104	56,748
5 years	72	22,752	70 years 71 years	87	53, 256
6 years	98	31, 128	71 years	79	47, 268
7 years	111	37, 452	72 years	58	29, 568
8 years	102	36, 408	73 years	50	26, 724
9 years		47, 124	74 years	36	19,632
Olyears.		52, 272	75 years	20	8, 160
1 years		58, 536	76 years	ĩĩ	3, 804
2 years		68, 208	77 years	19	5, 640
3 years		71, 436	78 years	7	1,644
		80, 100	70 reasons	4	1,044
4 years		84,000	79 years	1 2	300
5 years			80 years	2	
6 years		85,908	81 years		864
7 years		91, 656	82 years	3	1,500
8 years	179	91,044	83 years	1	2,748
9 years		80, 700	84 years	1	144
0 <u>l</u> years		135, 264	85 years	1	264
llyears		259, 128			
2 years	501	261, 612	Total	9, 700	5, 214, 464

Table 11.—The number and annuities of survivor annuitants on the roll, classified by age as of June 30, 1951—Survivors of deceased annuitants <sup>1</sup>

#### CHILDREN

Age	Number	Annuities	Age	Number	Annuities
	3	\$288	18	49	\$12, 78
	10	1, 284 1, 440	19	2 2	708 379
	33	3, 348 6, 312	2123	$\frac{1}{2}$	9- 72-
	27 38	5, 124 7, 548	25 29	$\frac{2}{2}$	21 67
	33	6, 732 8, 628	30 31	3 1	1,03 36
)	42 52	9, 288 9, 679	33 35	2 1	. 72 22
3 <b>.</b>	37 52	7, 404 11, 047	37 38	2	54 36
	63 67	15, 252 14, 844	4147	1	8 48
,	75 82	17, 940 18, 612	Total	759	164, 18

Includes voluntary annuities continued to survivors.

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Table 11.—The number and annuities of survivor annuitants on the roll classified by age as of June 30, 1951—Survivors of deceased annuitants —Continued

WIDOWS UNDER SEC. 12 (c) (2)

Age	Number	Annuities	Age	Number	Annuities
25 29 30 31 31 32 33 34 44 55 66 77 77 88 89	2 1 1 4 4 7 7 14 7 9 11 17 10 20	\$444 180 276 1, 116 1, 688 2, 592 2, 255 6, 816 4, 953 4, 032 3, 132 5, 904 4, 380 8, 148	42. 43. 44. 45. 46. 47. 48. 49. 50. 51. 52. Total	13 13 23 11 18 29 24 25 11 7 3	\$5, 57; 6, 42( 11, 82; 5, 49( 9, 22; 15, 33( 13, 92; 13, 58; 5, 79( 6, 000 1, 52;

#### WIDOWS OTHER THAN UNDER SEC. 12 (c) (2)

		1			
22	1	\$435	62	457	\$239, 373
25	1	127	63	491	265, 722
29	2	255	64	459	252, 057
30	2	380	65	525	292, 828
	7	950	66	525	294, 382
	#		00		
32	0	1,409	67	617	336, 550
33	4	1,076	68	530	286, 182
34	6	1,688	69	513	267, 268
35	13	3, 911	70	470	245, 670
36	15	3, 364	71	510	262, 533
37	17	5, 919	72	461	246, 373
	20		79	451	228, 448
		6, 437	73		
39	27	7,742	74	436	228, 580
40	24	8, 179	75	423	217, 116
41	35	10, 719	76	336	161, 173
42	44	16, 495	77	300	148, 771
43	54	21,072	78	245	130, 301
44	51	15, 700	79	243	120, 136
45	53	16, 959		183	92, 794
			80		
46	76	27, 848	81	136	66, 165
47	77	29, 670	82	107	49, 538
48	103	39, 979	83	94	45, 180
49	94	33, 574	84	63	30, 954
50	130	51, 882	85	45	21,628
51	219	94, 842	86	39	16, 697
52	212	95, 980	87	23	10, 954
	243	115, 425	88	14	7, 098
53	252			10	4,618
54		113, 966	89		
55	268	126, 106	90	3	1,800
56	327	162, 743	91	4.	1,766
57	300	150, 187	92	3	1,093
58	369	181, 857	93	2	548
59	369	182, 091	100	1	241
	420	227, 635			
	483		Total	13,039	6, 577, 773
61	483	246, 634	1 Otal	10,009	0,011,110

<sup>&</sup>lt;sup>1</sup> Includes voluntary annuities continued to survivors.



CIVIL SERVICE RETIREMENT AND DISABILITY FUND

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Table 11.—The number and annuities of survivor annuitants on the roll classified by age as of June 30, 1951—Survivors of deceased annuitants —Continued

ALL OTHERS

			,		OTHERS				
Age		Men		Women			Men	V	Vomen
nge	Num- ber	Annuities	Num- ber	Annuities	Age	Num- ber	Annuities	Num- ber	Annuities
19	1 1 1 1 1 2 3 3 1 1 2 2 3 3 1 1 2 2 2 1 1 1 1	\$516 26 137 388 91 328 492 553 618 147 1, 795 788 498 463 261 447 886 195 1, 735 638 578 1, 940 3, 211 3, 347 4, 086 1, 907 1, 817 3, 613 3, 205	1 1 1 1 1 2 2 1 1 1 1 1 1 1 1 1 2 1 1 1 1 1 1 1 2 1 1 1 1 2 1 1 1 1 2 1 1 1 2 1 1 2 1 2 1 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2	\$612 237 154 444 444 344 1, 313 28 225 1, 303 216 618 117 576 68 181 421 64 969 969 142 364 1, 229	63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 80 81 82 82 83 84 85 86 87 88 89 90 90 94 99 Total	7 4 8 8 7 8 9 5 6 6 14 3 3 11 1 8 8 9 6 6 6 7 4 7 7 1 3 1 1 1 1 2 1 1 1 1 1 2 2 1 1 1 1 1 2 2 8 8	\$2, 243 1, 151 3, 268 1, 839 2, 910 2, 345 1, 467 1, 894 5, 990 1, 221 3, 982 2, 805 3, 078 2, 253 2, 918 1, 127 1, 901 1, 584 1, 930 3, 056 3, 331 869 590 342 342 37 37 37 37	1 1 2 3 3 - 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	\$1, 160 322 324 794 1, 812 3, 240 387 399 278 384

<sup>&</sup>lt;sup>1</sup> Includes voluntary annuities continued to survivors.

THIRTY-SECOND ANNUAL REPORT OF THE BOARD
OF ACTUARIES OF THE CIVIL SERVICE
RETIREMENT AND DISABILITY FUND

AS OF JUNE 30, 1952

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#### LETTER OF SUBMITTAL

NEW YORK CITY, July 29, 1953.

UNITED STATES CIVIL SERVICE COMMISSION,

Washington, D. C.

Washington, D. C.

Ladies and Gentlemen: The Board of Actuaries appointed under section 16 of the act of May 22, 1920, for the retirement of employees in the civil service of the United States, has the honor to submit herewith its 32d annual report on the operation of the fund.

In accordance with the practice of the Board in the past, the report gives a statement of the appropriation required of the Government under the Retirement Act, as amended, on the basis of the estimated membership of the fund as of June 30, 1952.

Respectfully submitted.

GEO. B. BUCK, R. R. REAGH, JOHN P. JONES,

Board of Actuaries, Civil Service Retirement and Disability Fund.

# THIRTY-SECOND ANNUAL REPORT OF THE BOARD OF ACTUARIES OF THE CIVIL SERVICE RETIREMENT AND DISABILITY FUND

The civil service retirement and disability fund was established in 1920 to furnish retirement benefits to officers and employees of the United States Government who become superannuated in governmental service, or incapacitated before attaining old age. The Retirement Act makes provision for a Board of Actuaries of the Civil Service Retirement Act and in section 16 defines the chief duties of the Board to be as follows:

\* \* \* to annually report upon the actual operations of this Act, with authority to recommend to the Civil Service Commission such changes as in their judgment may be deemed necessary to protect the public interest and maintain the system upon a sound financial basis, and they shall make a valuation of the "civil-service retirement and disability fund" at intervals of five years, or oftener if deemed necessary by the Civil Service Commission; they shall also prepare such tables as may be required by the Civil Service Commission for the purpose of computing annuities under this Act \* \* \*

This report, which has been prepared as of June 30, 1952, is the 32d annual report of the Board of Actuaries. The report gives first a summary of the main benefit and contribution provisions of the act as amended to June 30, 1952. Then statements are included regarding the active and retired membership. Next the estimated appropriation recommended for payment by the Government on the basis of the estimated membership as of June 30, 1952, is given. This is followed by statements giving the results of a valuation of the liabilities of the fund on account of annuities in force on the roll as of June 30, 1952, and the results of the mortality experience of annuitants for the past year. In conclusion the Board gives certain comments on the history of the fund and its financial operation.

SUMMARY OF BENEFIT AND CONTRIBUTION PROVISIONS OF THE CIVIL SERVICE RETIREMENT AND DISABILITY FUND

The retirement act was amended as of July 16, 1952, to provide temporary increases in annuities for persons then receiving or entitled to receive annuities. The increases will terminate not later than June 30, 1955, and their payment until that date is contingent upon the receipt of special appropriations to cover the amount of the increase. The following summary states the main benefit and contribution provisions of the act, as they were interpreted by the Board of Actuaries.

#### BENEFITS

Service retirement

Condition for eligibility. —Retirement is compulsory at age 70 after 15 years of service.

<sup>\*\*</sup>Certain employees who have rendered 20 years of service in the investigation, apprehension, or detention of persons suspected or convicted of offenses against the criminal laws of the United States are eligible to retire after age 50 and receive an annuity of 2 persons of average basic salary for any 5 consecutive years multiplied by the number of years of service not exceeding 30 years.

CIVIL SERVICE RETIREMENT AND DISABILITY FUND 22

Retirement is permissible at the option of the employee at age 60

after 30 years of service or at age 62 after 15 years of service.

At the option of the employee at age 55 after 30 years of service or upon involuntary separation not due to misconduct or delinquency after 25 years of service, an immediate annuity is payable equal to the regular annuity reduced by 1/4 percent for each month the employee is under age 60.

Amount of benefit.2—The annuity is determined by one of two plans,

whichever provides the larger benefit:

Plan I. An annuity equal to 11/2 percent of average annual basic salary 3 for each year of service but no such annuity is to exceed 80 percent of average annual basic salary.3

Plan II. An annuity equal to 1 percent of average annual basic salary 3 plus \$25 for each year of service, but no such annuity is to

exceed 80 percent of average annual basic salary.3

Disability retirement

Condition for eligibility.—Retirement is permissible upon disability

after 5 years of civilian service. Amount of benefit.—The benefit is determined by the same method

as used for service retirement.

Any compensation for disability paid from the United States employees' compensation fund is deducted from the annuity benefit payable on account of the same disability.

Discontinued service retirement

Condition for eligibility.—Upon separation from service after 5 or

more years of civilian service, a deferred annuity is payable.

Amount of benefit.—The deferred annuity begins at age 62 or at age of separation, if later, and is computed by the same method as the regular annuity but without choice of a joint and survivorship option.

If the employee has less than 20 years of civilian service, he may elect to receive his contributions with interest at 4 percent to December 31, 1947, and 3 percent thereafter to date of separation in lieu of the deferred annuity.

Return of contributions upon withdrawal from active service

Return of total contributions is made upon withdrawal from active service before 5 years of civilian service. Interest at 4 percent to December 31, 1947, and at 3 percent thereafter is allowed if service is in excess of 1 year.

Return of contributions on death before retirement

On death before 5 years of civilian service or after 5 years of civilian service when there is no survivor entitled to an annuity, return of total contributions is made with interest at 4 percent to December 31, 1947, and 3 percent thereafter to date of death of the employee.

Return of contributions on death before commencement of payment under a deferred annuity

Return of total contributions is made upon death before commencement of deferred annuity. (Interest is allowed at 4 percent to December 31, 1947, or to date of separation, whichever is earlier, and 3 percent thereafter to date of death.)

<sup>&</sup>lt;sup>2</sup>An additional annuity of \$36 for each year of certain specified service in Alaska or on the Isthmus of Panama is allowed officers and employees who are citizens of the United States.

A verage annual basic salary is used to denote the average annual basic salary received by the employee during app 5 consecutive years of allowable service at the option of the employee.

CIVIL SERVICE RETIREMENT AND DISABILITY FUND

Return of contributions upon death after retirement

Upon death before the payments of the annuity amount to contributions (with interest at 4 percent to December 31, 1947, and 3 percent thereafter to date of retirement) the difference is paid, unless there is a survivor entitled to an annuity.

Annuities to dependents upon death in active service

Condition for eligibility.—Annuities to dependents are paid upon death of an employee in active service after 5 years of civilian service.

Amount of benefit.—(a) If survived by a widow, an annuity beginning the first of the month following the death of the employee or widow's attainment of age 50, whichever later, equal to one-half regular annuity is payable to the widow until death or remarriage.

(b) If survived by a widow and a child or children, in addition to

(a), an immediate annuity equal to one-half regular annuity to the employee is payable to the widow until death, remarriage, or attainment of age 50. Also an immediate annuity equal to one-fourth of the regular annuity, not in excess of \$900 divided by the number of children, or \$360, whichever is lesser, is payable to each child.

The annuity payable to a child is terminated upon attainment of

age 18, marriage, or death, whichever is earlier.

(c) If survived by a child or children and there is no widow or widower, an immediate annuity equal to one-half regular service annuity, not in excess of \$1,200 divided by the number of children, or \$480, whichever is lesser, is payable to each child until attainment of age 18, marriage, or death, whichever is earlier.

Upon death of the widow, the annuity payable under (b) to a child

or children is recomputed and paid as provided in (e).

Upon termination of the annuity of a child, the annuities to other children are recomputed as though the child whose annuity was terminated had not survived the employee.

Optional benefits

At retirement a married employee may elect to receive in lieu of his or her regular annuity a reduced annuity payable during the employee's life and an annuity payable to the surviving widow or widower equal to 50 percent of the regular annuity before reduction. The annuity to the survivor commences upon the employee's death or the survivor's attainment of age 50, whichever is later, and ceases upon death or remarriage. The reduction in the employee's annuity is 5 percent of so much of the regular annuity as does not exceed \$1,500, plus 10 percent of any excess over \$1,500, plus three-fourths of 1 percent for each year the spouse lacks of being age 60 at the date of retirement, but in no case shall the reduced annuity be less than 75 percent of such regular annuity.

At service retirement any unmarried employee in good health may elect to receive in lieu of his regular annuity a reduced annuity payable during his life and an annuity payable after his death to a survivor annuitant equal to 50 percent of such reduced annuity and, upon death of a survivor annuitant, all payments cease. The annuity payable to the employee is as follows: 90 percent of life annuity if survivor is same age or older or is less than 5 years younger than annuitant; 85 percent of life annuity if survivor is 5 but less than 10 years younger than annuitant: 80 percent of life annuity if survivor

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is 10 but less than 15 years younger than annuitant; 75 percent of life annuity if survivor is 15 but less than 20 years younger than annuitant; 70 percent of life annuity if survivor is 20 but less than 25 years younger than annuitant; 60 percent of life annuity if survivor is 25 or more years younger than annuitant.

Annuities to dependents upon death after retirement

Benefits to widows with children and to children upon death of annuitants are similar to those payable upon death of employee in active service, except that benefits are based on regular annuity paid to annuitant and the annuity payable to the widow with a child or children terminates upon death, remarriage, or attainment of age 50, unless an optional benefit was selected by annuitant. No benefits are payable to dependents of annuitants retired on account of discontinued service.

Benefits to annuitants retired prior to April 1, 1948

Benefits to annuitants retired prior to April 1, 1948, were increased by 25 percent or by \$300, whichever was less, provided any such annuitant could, prior to April 1, 1948, elect to retain his or her present annuity in lieu of the increased annuity and provide that one-half of such present annuity, but not to exceed \$600, be continued to his wife or her husband until death. Effective September 1, 1950, the annuities of those who in 1948 elected survivor benefits were increased as stated above. Survivor benefits, as previously described, were granted those who in 1948 elected the increase, applicable in any case where death occurs after April 30, 1948, but no survivor annuity was payable for any period prior to September 1, 1950.

was payable for any period prior to September 1, 1950.

No change was made in deferred annuities payable to employees

separated from service prior to April 1, 1948.

#### CONTRIBUTIONS

By employees

Employees pay 6 percent of salary commencing July 1, 1948.

Any employee may at his option and under regulations prescribed by the Civil Service Commission deposit additional sums in multiples of \$25 but not to exceed 10 percent of his annual salary for service rendered since August 1, 1920, for the purchase of an additional annuity.

By Government

Annual appropriations required in addition to employees' contributions to support the plan are to be made by the Government.

Estimated Active Membership as of June 30, 1952

The active membership of the fund as of June 30, 1952, was estimated by the Civil Service Commission to consist of 1,700,000 employees with an annual payroll of \$6,468,500,000.

ANNUITANTS ON THE ROLL AS OF JUNE 30, 1952

The following table summarizes the number and amount of annuities in force on June 30, 1952, as shown by the records of annuitants maintained by the Civil Service Commission. On pages 33 to 37 of



CIVIL SERVICE RETIREMENT AND DISABILITY FUND

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this report, the distributions of the number and annuities of annuitants on the roll as of June 30, 1952, by age are given for men and women separately. The tabulations show survivors of deceased employees and survivors of deceased annuitants separately.

Table 1.—The number and annual annuities of annuitants on the roll June 30, 1952

	Degulo	r annuities	Voluntary	ammirities.	
Q	noguia	r annumes	v orantar y	amorues	Total annui
Group	Number	Amount	Number	Amount	ties
Retired on account of age and voluntary and involuntary separations:  Men Women	108, 293 19, 760	\$141, 455, 004 21, 358, 824	1, 747 604	\$503, 244 110, 388	\$141, 958, 248 21, 469, 212
Total	128, 053	162, 813, 828	2, 351	613, 632	163, 427, 460
Retired on account of disability:  Men	37, 220 11, 057	36, 224, 820 9, 737, 424	322 137	52, 224 15, 420	36, 277, 044 9, 752, 844
Total	48, 277	45, 962, 244	459	67, 644	46, 029, 888
Survivors of deceased employees: Widows under sec. 12 (e) (1). Widows under sec. 12 (e) (2). Children under secs. 12 (c) (2) and (3)	9, 215 3, 725 8, 107	5, 533, 836 1, 604, 508 1, 537, 548			5, 533, 836 1, 604, 508 1, 537, 548
Total	21, 047	8, 675, 892			8, 675, 892
Survivors of deceased annuitants: 1 Widows under sec. 12 (c) (2) Widows other than under sec. 12 (c) (2) Children under secs. 12 (c) (2) and (3) All others: Men Women	405 16, 958 1, 062 372 58	196, 500 8, 743, 272 228, 852 120, 192 25, 968			196, 500 8, 743, 272 228, 852 120, 192 25, 968
Total	18, 855	9, 314, 784			9, 314, 784
Grand total	216, 232	226, 766, 748	2, 810	681, 276	227, 448, 024

<sup>&</sup>lt;sup>1</sup> Includes voluntary annuities continued to survivors.

#### COST OF BENEFITS PAYABLE UNDER FUND

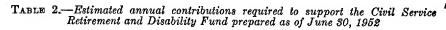
Each employee pays 6 percent of his compensation into the fund. The amounts so contributed are credited to the employee's individual account and, if he leaves service or dies before he has completed 5 years of civilian service, his total credits with interest are returned to him or to his beneficiary. If an employee leaves service after completing 5 years but before 20 years of civilian service, he may elect to have his contributions returned to him with interest, or, in lieu thereof, he may apply for a deferred annuity beginning at age 62 computed by the same method as a regular annuity but without choice of a joint and survivorship option. If he leaves after 20 years of civilian service, he is paid a deferred annuity beginning at age 62 computed by the same method as a regular annuity but without choice of a joint and survivorship option. When the employee qualifies for retirement, he receives the stipulated retirement allowance based on his service and salary and if he dies before the payments of this allowance are equal to his contributions with interest to the retirement date, the balance is paid to his beneficiary or estate unless there are survivors entitled to an annuity.

The Retirement Act does not set a definite percentage contribution rate to be paid by the Government but provides that an estimate of

the appropriation necessary to finance the fund be submitted each year to the Bureau of the Budget. Two annual contributions are payable to the fund, namely, a "normal" contribution and a "deficiency" contribution. The normal contribution rate is the average percentage of the salaries of all new employees that is required to be paid into the fund from the time they enter service until they leave service in order to accumulate sufficient funds to pay their benefits. Part of this normal contribution is met by the employees' contributions and the remainder represents the normal contribution rate of the Government. The deficiency contribution is required because at the time of the establishment of the fund, employees then in service were given credit for their prior service during which no contributions had been made by the Government. Therefore, there was an accrued liability or deficiency to be met by the Government at that time. Further increases in the deficiency have come about through changes in the benefit provisions, through the addition of new groups of employees to whom credit for service rendered prior to their admission was allowed, and through the fact that in certain years since the funding policy was adopted the Government's appropriations have not been sufficient to meet the current costs of the fund.

Annual Appropriations of Government on Basis of Estimated Payroll as of June 30, 1952

In accordance with the procedure followed in previous reports, the Board has prepared the following statement as of June 30, 1952, which gives an estimate of the appropriation required of the Government on the basis of the estimated payroll of the membership as of that date.



	Norm	Normal cost as—		ncy cost as-	Total cost as—		
Contribution	Percent- age of payroll	Annual amount	Percent- age of payroll	Annual amount	Percent- age of payroll	Annual amount	
Total	8. 78	\$567, 934, 300	3.06	\$197, 936, 100	11.84	\$765, 870, 400	
Payable by employees Payable by Government	6. 00 2. 78	388, 110, 000 179, 824, 300	3.06	197, 936, 100	6.00 5.84	388, 110, 000 377, 760, 400	

The preceding table shows the normal cost to support the benefits accruing on account of current service to be equivalent to 8.78 percent of payroll. The employees contribute 6 percent toward the normal cost and, therefore, there remains 2.78 percent to be paid by the Government. On the basis of the estimated payroll as of June 30, 1952, this represents an annual payment of \$179,824,300. The deficiency cost, or the annual cost due to the accrued liability, is shown by the table to be \$197,936,100. This entire deficiency contribution is a liability of the Government. Therefore, the total annual contribution recommended for payment by the Government on the basis of the estimated payroll as of June 30, 1952, is \$377,760,400. The actual appropriation for the fiscal year 1953 was approximately \$325,304,154.

The normal percentage rate of contribution of 2.78 percent was developed on the basis of the valuation as of September 30, 1947,

prepared by the Civil Service Commission, with an adjustment estimated to cover the increased cost due to the optional benefits as amended by Public Law 310, effective September 30, 1949. The deficiency rate of 3.06 percent represents the percentage of payroll as of June 30, 1952, which produces 4 percent interest on the estimated deficiency as of that date. This is the minimum payment which will keep the principal amount of deficiency from increasing. The amount of annual deficiency payment is greater than that shown in last year's report because the payment made during the year was less than interest at 4 percent on the deficiency. Hence the deficiency increased during the year so that a larger payment is needed for the current year to provide the accruing interest.

LIABILITIES OF FUND ON ACCOUNT OF ANNUITANTS ON THE ROLL AS OF JUNE 30, 1952

A valuation of the liabilities of the fund on account of annuitants on the roll as of June 30, 1952, was prepared and the results of the valuation are summarized in table 3 below. The mortality tables used for the valuation were those used in the quinquennial valuation made as of June 30, 1940. These tables are given in the 22d annual report of the Board and therefore have not been reproduced in this report.

Table 3.—Liabilities on account of annuitants as of June 30, 1952

	Present value of benefits to annuitants on the roll				
Group	Regular annuities	Voluntary annuities	Total annuities		
Retired on account of age and voluntary and involuntary separation.  Retired on account of disability.  Reversionary amnutites to designated beneficiaries 1.  Survivorship amnutites 1.	\$1, 329, 929, 205 464, 326, 889 216, 927, 312 203, 243, 076 2, 214, 426, 482	\$5, 834, 110 752, 819 	\$1, 835, 763, 313 465, 079, 708 216, 927, 313 203, 243, 076 2, 221, 013, 413		

Includes voluntary annuities.

In the 31st annual report of the Board, the liabilities on account of annuities payable to annuitants on the roll as of June 30, 1951, were shown to be \$2,016,051,658, as compared with \$2,221,013,411 as of June 30, 1952, or an increase in liabilities of nearly \$205 million during the past year.

Summary of Mortality Experience of Annuitants for the Year Ended June 30, 1952

For the purpose of making a check of the mortality tables for annuitants, the actual and expected number of deaths and of annuities canceled by death during the past year were prepared separately for men and women who had retired on account of age, or voluntary or involuntary separation from service, and for men and women who had retired on account of disability. The following table summarizes the results of the comparison.

8 CIVIL SERVICE RETIREMENT AND DISABILITY FUND

Table 4.—Summary of the comparisons of the actual and expected deaths among annuitants July 1, 1951, to June 30, 1952

Group	Nt	ımber of dea	ths	Annuitie	s terminated	by deaths
	Actual	Expected	Difference	Actual	Expected	Difference
Employee annuitants retired on account of age, voluntary, and involuntary separation:  Men	5, 845 587 2, 406 424	5, 891. 8 720. 3 1, 590. 7 356. 1	+46.8 +133.3 -815.3 -67.9	\$7, 484, 400 596, 772 2, 348, 148 374, 472	\$7, 654, 104 755, 820 1, 495, 056 302, 172	+\$169, 704 +159, 048 -853, 092 -72, 300

<sup>&</sup>lt;sup>1</sup> The expected cases of disability are calculated on an aggregate rather than a select table, which tends to show a more favorable experience than would be indicated if select tables were used, due to the sizable increase in the number of annuitants in recent years. However, the last test of the mortality of deceased annuitants indicated that the difference in mortality by duration did not, in the opinion of the Board, justify the use of select tables.

A check of the mortality tables used for widows was also prepared this year. The following table summarizes the comparison.

Table 5.—Summary of the comparisons of the actual and expected deaths among survivor annuitants, July 1, 1951, to June 30, 1952

Group	Nı	ımber of dea	ths	Annuities	terminated	by deaths .
Cloup	Actual	Expected	Difference	Actual	Expected	Difference
Widows under secs. 12 (c) (1) and 12 (c) (2)	114 25 382	148. 5 37. 6 412. 9	+34. 5 +12. 6 +30. 9	\$65, 484 24, 048 179, 424	\$85, 524 32, 364 198, 432	+\$20,040 +8,316 +19,008
Total	521	599.0	+78.0	268, 956	316, 320	+47, 364

#### COMMENTS ON ANNUITANTS' EXPERIENCE

The actual experience of annuitants during the year ended June 30, 1952, has been compared with the experience of previous years and the following points noted.

In general, the actual experience of annuitants during the year ended June 30, 1952, followed the trend of previous years. Again among pensioners retired on account of age or voluntary separation, there were fewer deaths than expected. In the case of men, however, the actual number of deaths were 99 percent of the expected which was the same relationship as obtained during the previous year and the actual amounts of annuities canceled by death represented about the same percentage of the annuities expected to be canceled as in the previous year. In the case of women, the departure of the actual experience from the expected continues to be more pronounced than in the case of men but there was not much change in the experience of the past year from that of the previous year. By number, the actual deaths represented 81.5 percent of the expected as contrasted with 79.7 percent the previous year and by annuities the percentages were 79 percent during the past year as contrasted with 78 percent during the previous year.

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With respect to employees retired on account of disability, the experience followed that of past years. The actual deaths during the past year exceeded the expected deaths and the actual annuities terminated by death exceeded the expected annuities by a wide margin.

The table used for widows is the same as for women employees and as in the case of women employees the actual experience is showing

that the table is not conservative.

The Board recommends that when a new valuation of the fund is prepared, the matter of mortality tables to be used be reviewed, with the thought that at least for women more conservative tables should be used.

REVIEW OF HISTORY OF CIVIL SERVICE RETIREMENT AND DISABILITY FUND

The civil service retirement and disability fund was established under an act of Congress May 22, 1920. A retirement age of 70 was set as the normal retirement age for general employees and the maximum pension payable was \$720 per annum. Employees were required to pay 2½ percent of their pay. No appropriations by the Government were payable. The first annual report of the Board of Actuaries, which was issued as of June 30, 1921, showed that the cost of the benefits promised under the act was equivalent to an annual contribution of 5.87 percent of payroll and with the employees paying 2.50 percent of salary an unfunded cost was accruing equivalent to 3.37 percent of payroll

payroll. The fund continued without change until 1926 when the benefits were increased to provide annuities based on the average compensation of the last 10 years of service, with a maximum annuity of \$1,000 per annum to an employee with 30 or more years of service at retirement. At the same time employees' contributions were increased to 3½ percent of payroll. No appropriations were payable by the Government and the fund continued to be supported on the basis of employees' contributions, with the interest earnings, until the fiscal year 1929 when the first annual appropriation was made by the Government. During the years that had elapsed since the fund was established the annuity roll had increased from \$3,650,000 per annum to over \$12,300,000. The annuitants themselves had contributed for very short periods and had covered by their own contributions only a very small part of the cost of their annuities, and therefore the contributions of employees in active service were being drawn upon to provide the current payments to annuitants. Since employees were entitled to receive annuities in excess of what their own contributions would provide, if they stayed in until retirement, and to receive the amount contributed with interest, if they left before retirement or died before retirement, a deficiency was developing in the fund which would have to be paid up sooner or later if the contributing employees were to receive their full benefits. The Republican administration at that time took the position that the public should know what costs the taxpayers were accruing on account of civil service annuities and should meet the accruing cost by appropriations to the fund. The first appropriation on this basis was made for the fiscal year 1929.

CIVIL SERVICE RETIREMENT AND DISABILITY FUND

Employees were not satisfied with the retirement provisions. number of proposals for liberalizing the benefits were submitted. The Board of Actuaries made numerous estimates of the cost of the various proposals so that Congress would know what liability was being incurred by any change and would not adopt any liberalizing amendment without knowledge of its cost. The employees were particularly anxious for a 30-year retirement provision. Under amendments effective May 29, 1930, a provision was adopted for retirement 2 years before the normal retirement age provided the employee had at least 30 years of service. This meant a minimum normal retirement age of 68 for general employees. Also the benefit was increased to \$900 per annum after 30 years of service plus the annuity that the members' contributions would provide on if greater annuity that the members' contributions would provide or, if greater, a benefit based on average final salary but not exceeding an annuity of \$1,200 per annum. Employees' contributions were not changed but provision was made for deducting from their contributions \$1 per month. This contribution went into a general fund and not to the employee's credit in determining his refund at resignation or his annuity at retirement.

In 1939 a new minimum benefit was included, namely, that the Government annuity be at least equal to the annuity provided by the member. Then in 1942 the act was further amended to permit retirement at age 60 after 30 years of service or at age 62 after at least 15 years of service. A further minimum was added fixed at the rate of one-seventieth of average compensation of the last 5 years of service for each year of service. Vesting benefits after 5 years of service were added. The employees' contributions were increased to 5 percent of added. The employees' contributions were increased to 5 percent of salary. Again in 1948 the act was amended to provide death benefits to widows and children, and to introduce an entirely new benefit formula of 1½ percent of the average salary of the last 5 years of service but not less than 1 percent of such average for each year of service but not less than 1 percent of such average salary plus \$25. The employees' contributions were increased to 6 percent and the deduction of \$1 from credited contributions was

eliminated.

During this period of liberalization of the benefits of the fund no change in the retirement law regarding appropriations by the Government was made. Each year the Board of Actuaries gave in its report the percentage of payroll which if paid by the Government would meet its share of the cost of benefits on account of the service being rendered by employees then in active service and the percentage of payroll which would if paid over a long period of years gradually liquidate the deficiency which had arisen on account of the crediting of service rendered prior to the establishment of the fund and deficits in past appropriations. For several years beginning with the fiscal year 1929 appropriations were made based on these estimates. Then appropriations were made at amounts less than needed for this purpose so that each year a deficit was added to the unfunded obligations of the Government. While the Government increased its appropriation over the years from 1935 until the present year, the amounts appropriated failed to keep abreast with the increase in benefits and the increase in coverage. For the fiscal year 1954 no appropriation has been made pending a study of the policies to be followed by the Government in funding its obligations under the act.

CIVIL SERVICE RETIREMENT AND DISABILITY FUND

The argument has been made that reserves should not be built up to meet the Government's obligations, that since any moneys set aside are to be invested in the Government's own securities, the Government is in effect borrowing from itself and in the end the outlay would be the same whether the Government set aside a lesser amount now and paid its interest or appropriated a greater amount later. In support of this argument the hypothetical case of a government without a debt was cited and it was stated that in order to have a reserve fund such a government would need to go into debt in order to issue the bonds in which to invest. This argument is novel and it would seem to mean one of two things. It might mean that a government, without a debt, would have the privilege of incurring any deferred pension liabilities for the public to meet that it wishes to incur, because if it does not take such deferred liabilities into account in its bookkeeping, it is in a good financial position. We would assume that in such a case any system would have to be noncontributory because there would be no way of investing reserves arising from employees' contributions. This theory has operated to the disadvantage of taxpayers in many cases where it has been used, and to a loss to employees in others. The other alternative would seem to be that such a government should set aside funds to meet its obligations, when it incurs them, but not invest them but hold them in cash. Perhaps there is a third possibility, namely, that if no provision to meet pension costs is made as the costs accrue future pensions may be cut if future costs are too high. This argument may be sound in a system like the Social Security System, where almost the entire public is involved, but it hardly applies to a staff pension system where employees are rendering definite service to the employer in return for a definite promise of a stated pension. In the latter case the pension is not like social insurance, but it is in the nature of deferred compensation.

#### Conclusion

The Board of Actuaries has watched the development of the civil service retirement and disability fund through its 32 years of operation. The Board has seen the system start with a coverage of approximately 330,000 civil service employees and increase to 5 times that number. It has seen the covered payroll increase to 15 times the payroll of 1921. It has seen the annual annuity roll increase from \$3,650,000 in 1921 to \$226,800,000 in 1952. There are few organizations of which the Board has knowledge which carry as heavy an obligation for annuitants. The Board has seen the accrued liability of the Government increase from almost \$250 millions in excess of the funds in hand of slightly under \$10 millions as of June 30, 1921, to approximately \$4,940 millions in excess of the funds in hand of over \$5,000 millions as of June 30, 1952.

One point has been noted in the history of funds operating on the

One point has been noted in the history of funds operating on the reserve basis which the Board believes should be considered in connection with the civil service retirement and disability fund. When a fund operates for a small part of the population or for the employees of one organization there are always demands for increased benefits and for reduction in employees' contributions. If the system operates on a reserve basis then whenever benefits are liberalized, immediate increases in the budget of the employer result. This causes the

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employer to weigh the demands of the employees and to grant only those demands which justify an increase in the expense of the organization. If the civil service retirement and disability fund is operated on a reserve basis, liberalization would mean an increase in the future budget in the year following the adoption of the more liberal benefits. For example, if the system had not been put on a reserve basis beginning with the appropriation made in the fiscal year 1929, the Congress probably would have granted retirement after 30 years of service regardless of age, because there was a strong demand for such a change and the only resistance to it seemed to stem from the fact that the increase in cost under the reserve basis was immediate. There is no method known to the Board of Actuaries which puts a better brake on unwarranted liberality of benefits than the reserve system which requires the cost of liberalizing benefits to be paid as it accrues.

While employees would seem to have less liberal treatment under such a system, the fact is that for employees as a whole it is better to have reasonable benefits that can be depended upon than to have higher benefits paid to those retiring in the immediate future with substantially reduced benefits to those retiring in the distant future

when more nearly the true cost of the program emerges.

According to the Board of Actuaries' estimate, appropriations approximately equal to members' contributions are needed from the Government in order to build up the reserves for the annuities which are being earned by present employees and take care of the deficit which has developed because of benefits based on service rendered prior to the establishment of the fund and insufficient appropriations in the past. If no appropriations for the time being are made, possibly appropriations at double this rate will be required eventually to meet the disbursements from the fund. It would seem an unsatisfactory outlook for the younger employees to have to depend on future taxpayers to make a much higher appropriation for their annuities than present taxpayers are willing to make who have had the benefit of their services. In the opinion of the Board, consideration should be given to having the Government contribute on a reserve basis as employees are doing or else contributions of both the employees and the Government should be reduced to a nonreserve basis. For example, if both employees and taxpayers need to pay approximately 6 percent of payroll to support the present benefits on a reserve basis, both should pay at this rate. If, however, the Government would decide to pay less than 6 percent at this time with the thought that the children of present taxpayers, that is, future taxpayers, should pay more than 6 percent, then the employees should likewise be permitted to pay less than 6 percent. If the concept of contributions for the social security benefits should be changed resulting in reduced contributions, it is fair to suppose that the contributions of both employees and employers would be reduced rather than to expect that the employers' contributions would be discontinued and the employees' contributions continued in full. It seems unreasonable to expect employees to continue their full contributions under the civil service retirement and disability fund and not have the Government make any contributions.

From the viewpoint of both the employees and the taxpayers it is the hope of the Board of Actuaries that the fund may be maintained

in the future on a full reserve basis.

SUMMARY OF TABULATIONS OF ANNUITANTS' DATA

The following tables give for men and women separately the number of annuitants and their annuities as of June 30, 1952, distributed by age as used as a basis for the valuation.

Table 6.—The number and regular monthly annuities of annuitants on the roll classified by sex and age as of June 30, 1952—retired on account of age and voluntary and involuntary separations

		Men	V	Vomen			Men	w	omen
Age	Num- ber	Monthly annuities	Num- ber	Monthly annuities	Age	Num- ber	Monthly annuities	Num- ber	Monthly annuities
41	1 1 2 2 2 15 15 102 9 129 129 211 1,276 1,030 1,276 2,477 3,325 5,724 6,188 5,621 6,618 6,018 6,018	\$27 115 87 111 685 909 934 1, 607 3, 346 6, 374 11, 766 62, 110 16, 502 23, 314 66, 790 85, 626 98, 273 124, 268 172, 243 276, 547 387, 387 124, 268 638, 293 172, 243 276, 547 387, 387 188, 466 638, 293 600, 404 639, 842 630, 663 726, 041 816, 131 726, 239	1 1 5 7 9 9 13 33 42 22 33 34 45 73 33 171 224 43 315 308 309 545 545 545 1,108 1,108 1,19	\$116 67 369 580 804 1, 017 1, 882 3, 263 4, 669 4, 410 8, 174 19, 604 25, 516 33, 274 46, 054 56, 092 84, 846 97, 705 88, 307 103, 170 98, 539 97, 517 98, 539 98, 539 97, 517 98, 539 97, 517 98, 539 98, 539	73	5, 595 4, 970 4, 903 4, 111 3, 455 2, 952 2, 373 2, 168 1, 461 1, 173 960 720 302 227 176 115 81 115 81 117 77 176 115 81 111 77 77 176 115 81 111 77 77 176 115 81 111 77 77 176 176 176 176 176 176 176	\$633, 579 \$47, 661 464, 749 437, 872 366, 387 309, 716 254, 268 224, 284 181, 052 154, 959 77, 78, 787 55, 362 441, 211 32, 290 24, 006 18, 644 11, 736 8, 997 6, 070 3, 587 1, 364 1, 096 579 183	972 848 713 664 567 491 200 171 132 240 200 171 132 25 25 23 9 9 7 7 7	\$86, 621 75, 040 62, 608 88, 244 48, 200 41, 977 34, 077 30, 344 20, 697 20, 586 16, 208 14, 117 10, 221 7, 774 5, 847 1, 15847 1, 950 1, 951 1, 951 1, 951 238 274 233 212

Table 7.—The number and voluntary monthly annuities of annuitants on the roll, classified by sex and age as of June 30, 1952—retired on account of age and voluntary and involuntary separations

	Į	Men	. 7	Vomen		1	Men	W	omen
Age	Num- ber	Monthly annuities	Num- ber	Monthly annuities	Age	Num- ber	Monthly annuities	Num- ber	Monthly annuities
19	1 5 5 12 17 19 31 25 38 46 97 92 124 135 121 132	\$53 156 90 232 458 520 674 680 947 773 2, 216 1, 827 2, 915 2, 672 3, 352 2, 672 3, 076 2, 296 2, 296 2, 297 2, 296 2, 297 2, 207 2, 207 2, 207 2, 207 2, 207 2, 207 2, 207 2, 207 2, 20	1 1 1 1 2 1 1 7 8 12 14 9 14 24 37 48 47 48 48	\$18 1 29 70 46 2 13 115 149 227 286 90 313 343 492 2775 424 660 601 828 605	71	125 110 89 65 50 51 39 24 28 10 12 10 3 3 1 4 1	\$3, 221 2, 334 2, 462 1, 606 1, 426 1, 087 1, 111 520 692 247 410 433 155 8 266 18	38 20 29 21 15 16 12 9 6 5 5 1	\$64 444 411 31: 186 200 10 9' 77 124 4:
0	108	2, 282	28	423	Total _	1,747	41, 937	604	9, 19

Table 8.—The number and regular monthly annuities of annuitants on the roll, classified by sex and age as of June 30, 1952—retired on account of disability

1000	Section 1
B +2	-
	1 10

		Men	V	Vomen			Men	W	omen
<b>lge</b>	Num- ber	Monthly annuities	Num- ber	Monthly annuities	Age	Num- ber	Monthly annuities	Num- ber	Monthly annuities
	1	\$15			63	1,731	\$142,978	457	\$36, 713
	5	106	3	\$77	64	1.665	134, 712	389	29, 497
	4	88	4	102	65	1, 293	105, 423	341	26, 090
	11	281	5	106	66	1,116	91,371	342	25, 512
	10	288	6 9	131 262	67	894	77, 338	333	24, 831
	38 44	1,002 1,175	15	400	69	793 651	67, 466 55, 135	272 230	20, 356 16, 773
	38	1,052	16	440	70	660	55, 538	234	17, 349
	47	1, 430	13	383	71	557	47, 255	202	14, 859
	64	1, 900	18	516	72	575	48, 641	208	14, 471
	76	2,672	21	601	73	538	47, 503	200	15, 420
	92	3,048	25	920	74	505	44, 481	162	12, 526
	.99	3, 529	25	730	75	456	40,003	138	10, 731
	124	4, 783	38	1,350	76	394	34, 773	143	11, 109
	147	5, 729	40	1, 466	77	331	28, 405	116	9, 431
	145 170	5, 347 6, 899	57 49	2, 013 2, 078	79	254 181	22, 232 16, 370	94 101	7, 497 7, 937
	181	7, 730	58	2, 222	80	198	17 446	69	5, 381
	230	11, 535	58	2, 646	81	148	17, 446 13, 175	63	5, 497
	234	11,817	80	3, 689	82	112	10,396	58	4, 733
	262	14, 384	103	4, 700	83	77	6, 348	26	2, 429
	316	18, 456	104	5, 591	84	52	4, 396	22	2,008
	300	18, 281	121	6, 080	85	48	3,978	13	1, 185
	379	23,074	124	6, 845	86	42	4, 100	11	756
	380	26, 152	175 172	10, 081	87	22 19	2,025	9	860
	414 528	29, 264 38, 572	242	10, 084 15, 033	89	12	1,749	3	289
	572	42,695	242	16, 335	90	5	387	l i	80
	859	68, 307	347	24, 166	91	8	644	Ì	368
	937	75, 611	392	30, 964	92	ĭ	104	ĭ	125
	1,208	98, 483	433	32, 930	93	Ī.	50		
	1,456	120, 098	401	32, 299	94			2	97
	1,922	159, 070	492	40,063	95	1	46	1	62
	2,097	176,006	498	40, 143	96	1	102	1	88
	2, 181	187, 910	480	40,062	98			1	71
	2, 190 2, 270	196, 529 198, 228	474 542	38, 465 42, 416	100	1	24		
	1,972	174, 108	494	36, 750	Total.	37, 220	3, 018, 735	11.057	811, 452
	1,875	157, 789	433	33, 182	I Coat.	01,440	0, 010, 100	11,007	Q11, 402

Table 9.—The number and voluntary monthly annuities of annuitants on the roll, classified by sex and age as of June 30, 1952—retired on account of disability

Age	Men		Women			Men		Women	
	Num- ber	Monthly annuities	Num- ber	Monthly annuities	Age	Num- ber	Monthly annuities	Num- ber	Monthly annuities
4 7 8	1 8 1	\$2 12 1	1	\$1	61 62 63	29 17 25 15 13	\$399 255 301 137	6 4 12 5	\$14 32 88 43
10 12 14 15	1 3 4 2 3	14 26 44 22 17	<u>1</u>	i	65 66 67 68	13 9 9 6 6	134 38 71 92 39	6 6 2 3	88 43 62 60 49
0 7 8 9	7 5 2 3 2	52 43 17	2 1	3 8	70 71 72 73	7 4 2 2 3	161 76 12 38	3 6 4 2	11 56 92 30 10
1 2 3 4	5 9 8	45 27 72 112 114	3 1 4 5	2 3 41 30	74 75 76	3 5 3 3	37 47 152 42	3 2	40
5 6 7 8	7 14 22 14	112 171 213 155	5 3 7 7 8	23 39 71 131	78 79 82	1	70 5	1 1	10 5
9 0	17 27	282 693	6 15	79 187	Total.	322	4, 352	137	1, 285

Table 10.—The number and monthly annuities of survivor annuitants on the roll, classified by age as of June 30, 1952, survivors of deceased employees

		CHILI	DREN		
Age	Number	Monthly annuities	Age	Number	Monthly annuities
Under 6 months	8	\$108	24 years	7	\$101
l year	87	1.041	25 years	12	309
years	145	1,761	26 years	7	107
years	193	2, 285	27 years	11	252
years	285	3, 463	28 years	8	176
years	366	4, 643	29 years	10	125
years	386	5,378	30 years	13	298
years	384	5, 185	31 years	6	158
years	417	5,750	32 years	7	142
years	461	6, 591	33 years	8	74
0 years	498	7, 381	34 years	5	139
1 years	اتقتا	7, 632	35 years	3	58
2 years		8,589	36 years	5	110
3 years	567	9, 796	37 years	6	139
4 years		10,076	38 years		6'
5 years		11, 787	39 years	4	4:
6 years		13, 285	40 years		74
7 years	1 272	13, 270	41 years	1	20
8 years.		6, 687	42 years	4	120
9 years		206	44 years	2	1:
O years	7	119	45 years	1	3
21 years	11	232	48 years	1	4
2 years		84			
23 years	. 11	185	Total	8, 107	128, 12
		WID	ows		
19 years	2	\$35	54 years	769	\$35, 42
20 years		29	55 years	626	29, 89
21 years			56 years		30, 57
22 years	2	25	57 years	1 222	30, 71
23 years	1 =	l 99	58 years		30,89
24 years	1 :	113	59 years		27, 47
25 years		187	60 years		28, 81
26 years		443	61 years		24,93
27 years		527	62 years		22, 23
28 years		620	63 years		23, 13
29 years		990	64 years	376	20, 20
30 years		798	65 years		13,54
31 years		1, 282	66 years		13, 61
51 years	- AS	1, 358	67 years	228	12,35

	44 years	-		01 70000	201	00' 000
	23 years	6	99	58 years	597	30, 899
	24 years		113	59 years	559	27, 479
	25 years		187	60 years	542	28, 816
	26 years		443	61 years	479	24, 936
			527	62 years		22, 236
4	27 years	== :	620	63 years		23, 133
,	28 years		990	64 years	376	20, 200
	29 years				243	13,542
	30 years		798	65 years	254	13,618
	31 years		1, 282	66 years	228	12,357
	32 years	63	1,358	67 years		12,001
	33 years	66	1,685	68 years		10, 928
	34 years	92	2, 329	69 years		8, 153
	35 years		2,284	70 years	126	5, 681
	36 years		3, 194	71 years	104	5, 430
	37 years		3,503	72 years	86	4, 591
	38 years		4, 278	73 years	60	2,472
	39 years		4, 324	74 years		2,348
	40 years	1 721	5,377	75 years		1,595
	41 years		6, 546	76 years		723
			6, 457	77 years		370
	42 years		7, 593	78 years		495
	43 years			79 years		204
	44 years					187
	45 years		9, 424	80 years		25
	46 years		9,474	81 years		72
	47 years	218	8,601	82 ears		149
	48 years	241	10, 453	83 years		
	49 years	221	9,767	84 years	ļ	229
	50 years	286	13, 538	85 years		12
	51 years	548	25, 485	86 years	1	22
	52 years		29, 495	1		
	53 years		29, 356	Total	12,940	594, 862
	20 7 0000000000000000000000000000000000	1				1

Table 11.—The number and monthly annuities of survivor annuitants on the roll, classified by age as of June 30, 1952—survivors of deceased annuitants 1

Age	Number Monthly annuities		Age	Number	Monthly annuities	
	5	\$74	20	4	\$106	
	11	161	21	2	31	
***************************************	15	243	22	ī	8	
**	23 37	289	24	2 1 2 2 5	60	:
	37	540	25	2	44	
	54 47	791	26	5	115	
	49	806 802	27	1 1 2	30 30	
	59	1,007	30	1	30	
)	66	1, 111	31	4	56 110	
	64	1, 111 1, 121	32	i	30	
!	72	1, 102	11 34	3	30 89	
	61	1,011 1,713	36	1	30	
	90	1,713	38	1 3	67	
	98 101	1, 937	39	3	83 7	
	120	1, 940 2, 428	48	1	.7	
	52	1, 049	40	1	40	
	ĩ	10	Total	1,062	19,071	
			11	1,002	10,011	
· · · · · · · · · · · · · · · · · · ·	WID	OWS UND	ER SEC. 12 (c) (2)			
	3	\$57	42	28 21	\$1,077 837	
	4	67	43	21	837	
	4 2 1 2 6	53 17	45	29 27	1, 320	
	2	39	46	27 19	1, 255 742	
	6	196	47	27	1, 225	
	4	143	48	34	1, 543	
	13	408	49	35	1,618	
	10	310	50	35 24	1,074	
	17	652	51	9	328	-
	10	552	52	7	500	1
	14	466	53	3	127	
	16 23	479 710	Total	405	10 975	
	17	580	10081	405	16, 375	
			· ·			
WII	ows or	HER THA	N UNDER SEC. 12 (c) (2)			
wii	[		N UNDER SEC. 12 (c) (2)	605	<b>\$00.000</b>	ı
wii	1	\$36	63	625	\$28, 298	·
	1 1	\$36 11	63	625 684 610	\$28, 298- 32, 059 29, 061	
	1 1 1	\$36 11 26 80	63 64 65	684 619 694	\$2,059 29,061 33 111	ı
	1 1 1	\$36 11 26 80	63	684 619 694 683	\$2,059 29,061 33 111	ı
	1 1 1	\$36 11 26 80 32 130	63	684 619 694 683 812	32,059 29,061 33,111 31,694 37,283	1
	1 1 1 4 2 5 6	\$36 11 26 80 32 130 132	63	684 619 694 683 812 679	32,059 29,061 33,111 31,694 37,283 30,870	
	1 1 1 4 2 5 6	\$36 11 26 80 32 130 132	63	684 619 694 683 812 679 678	32,059 29,061 33,111 31,694 37,283 30,870 30,612	
	1 1 1 4 2 5 6 4 9	\$36 11 26 80 32 130 132 90	63	684 619 694 683 812 679 678 606	32, 059 29, 061 33, 111 31, 694 37, 283 30, 870 30, 612 27, 024	
	1 1 1 4 2 5 6 4 9 16	\$36 11 26 80 32 130 132 90 190 414	63	684 619 694 683 812 679 678 606 659	32, 059 29, 061 33, 111 31, 694 37, 283 30, 870 30, 612 27, 024 28, 009	1
	1 1 1 4 2 5 6 4 9 16	\$36 11 26 80 32 130 132 90 190 414 385	63	684 619 694 683 812 679 678 606 659 592	32, 059 29, 061 33, 111 31, 694- 37, 283 30, 870 30, 612- 27, 024- 28, 009 26, 702-	1
	1 1 1 4 2 5 6 4 9 16	\$36 11 26 80 32 130 132 90 190 414 385 651	63	684 619 694 683 812 679 678 606 659 592 570	32, 059 29, 061 33, 111 31, 694 37, 283 30, 870 27, 024 28, 009 26, 702 24, 062	
	1 1 1 4 2 5 6 4 9 16 19 24 25 32	\$36 11 26 80 32 130 132 90 190 414 385 651 709	63	684 619 694 683 812 679 678 606 659 592	32, 059 29, 061 33, 111 31, 694- 37, 283 30, 870 30, 612- 27, 024- 28, 009 26, 702-	
	1 1 1 4 2 5 6 4 9 16 19 24 25 32	\$36 11 26 80 32 130 90 190 414 335 651 709 714 1,055	63	684 619 694 683 812 679 678 606 659 592 570 530 4418	\$2,059 29,061 33,111 31,694 37,283 30,870 30,612 27,024 28,009 26,702 24,062 22,979 21,551 17,109	
	1 1 1 1 4 2 5 6 4 9 16 19 24 25 32 34	\$36 11 26 80 32 130 90 182 90 190 414 385 651 709 714 1,055 1,195	63	684 619 694 683 812 679 678 606 659 592 570 530 504 418	\$2,059 29,061 33,111 31,694 37,283 30,870 30,612 27,024 28,009 26,702 24,062 22,979 21,551 17,109	
	1 1 1 4 2 5 6 4 9 16 19 24 25 32 34 44 55	\$36 11 26 80 32 130 90 190 190 414 335 651 709 714 1,055 1,195	63	684 619 694 683 812 679 678 606 659 592 570 530 418 371	82, 059 29, 061 33, 111 31, 694 37, 283 30, 870 30, 612 27, 024 28, 009 26, 702 24, 062 22, 979 21, 551 17, 109 15, 434	
	1 1 1 4 2 5 6 4 9 16 19 24 25 32 34 44 55	\$36 11 26 80 32 130 132 90 190 414 385 651 709 714 1,055 1,195 1,601 2,112	63	684 619 694 683 812 679 678 606 659 592 570 530 504 418 371 301 286	82, 059 29, 661 33, 111 31, 694 37, 283 30, 870 26, 702 24, 062 24, 070 24, 082 22, 979 21, 551 17, 109 15, 434 13, 448 11, 657	
	1 1 1 4 2 5 6 4 9 16 19 24 25 32 34 44 55 68	\$36 11 26 80 32 130 90 190 414 385 661 709 714 1,065 1,196 1,601 2,112 1,883	63	684 619 694 683 812 679 678 606 659 592 570 530 418 371 301 286 206	82, 059 29, 661 33, 111 31, 694 37, 283 30, 870 30, 612 27, 024 28, 009 26, 702 24, 062 22, 979 21, 551 17, 109 15, 434 11, 657 8, 920	
	1 1 1 1 4 2 5 6 4 9 16 19 24 24 25 32 44 44 55 68 68	\$36 11 26 80 32 130 90 190 414 3355 651 709 714 1,055 1,196 1,601 2,112 1,883 1,776	63	684 619 694 683 812 679 678 606 659 570 530 504 418 371 301 286 206	82, 059 29, 061 33, 111 31, 694 37, 283 30, 870 26, 702 24, 062 22, 979 21, 551 17, 109 15, 434 13, 448 11, 657 8, 920 6, 846	
	1 1 1 4 2 5 6 4 9 16 19 24 25 32 34 4 55 68 68 68 69 92	\$36 11 26 80 32 130 90 190 414 385 651 709 714 1,055 1,160 1,601 2,112 1,883 1,776 2,836	63	684 619 694 683 812 679 678 606 659 592 570 530 504 418 371 301 286 206 169	82, 059 29, 061 33, 111 31, 694 37, 283 30, 870 30, 612 27, 024 28, 009 26, 702 24, 062 22, 7551 17, 109 15, 434 13, 448 11, 657 8, 920 6, 846 4, 747	
	1 1 1 1 4 2 5 6 4 9 16 19 24 24 25 32 44 44 55 68 68	\$36 11 26 80 32 130 112 90 190 414 385 651 709 714 1,055 1,195 1,601 1,601 2,112 2,112 2,836 3,043 4,374	63	684 619 604 683 812 679 678 606 659 592 570 530 504 418 371 301 286 206 169 122 105	82, 059 29, 061 33, 111 31, 694 37, 283 30, 870 26, 702 24, 062 22, 979 21, 551 17, 109 15, 434 11, 657 8, 920 6, 846 4, 747 4, 262	
	1 1 1 4 2 5 6 4 9 16 19 24 25 32 34 44 55 68 68 68 68 92 92 95 139	\$36 11 26 80 32 130 90 190 414 385 651 709 714 1,055 1,160 1,601 2,112 1,876 2,836 3,043 4,374 4,900	63	684 619 694 683 812 679 678 606 659 592 570 530 504 418 371 301 286 206 169	82, 059 29, 061 33, 111 31, 694 37, 283 30, 870 30, 612 27, 024 28, 009 26, 702 24, 062 22, 7551 17, 109 15, 434 13, 448 11, 657 8, 920 6, 846 4, 747	
	1 1 1 4 2 5 6 4 9 16 19 24 25 32 34 44 55 68 68 68 95 91 148 2210	\$36 11 26 80 32 130 182 90 190 414 385 651 709 714 1,055 1,195 1,261 1,276 2,836 3,043 4,374 4,909 7,431	63	684 619 604 683 812 679 678 606 659 592 570 530 504 418 371 301 286 206 169 122 105 67 49	82, 059 29, 061 33, 111 31, 694 37, 283 30, 870 30, 612 27, 024 28, 009 26, 702 24, 062 22, 979 21, 551 17, 109 15, 434 13, 448 11, 657 1, 687 4, 262 2, 770	
	1 1 1 4 2 5 6 4 9 16 19 24 25 32 34 4 4 55 68 68 68 68 68 92 92 92 148 210 307	\$36 11 26 80 32 132 90 190 414 43 385 651 709 714 1,055 1,195 1,601 2,112 1,883 1,776 2,836 3,043 4,374 4,909 7,431 11,543	63	684 619 694 683 812 679 678 606 659 592 570 530 504 418 371 301 286 206 169 122 105 67 49 41	82, 059 29, 061 33, 111 31, 694 37, 283 30, 870 30, 612 27, 024 28, 009 26, 702 24, 962 22, 962 24, 163 17, 109 15, 434 11, 657 8, 920 6, 846 4, 747 4, 282 2, 770 1, 964 1, 545 8, 762	
	1 1 1 4 2 5 6 4 9 16 19 24 32 34 44 55 68 68 68 68 65 92 148 210 307 229 229	\$36 11 26 80 32 130 1132 90 190 414 385 651 709 714 1,055 1,195 1,261 1,276 2,883 1,776 2,883 1,776 2,883 1,776 4,893 1,774 4,909 7,431 11,543	63	684 683 812 679 678 606 659 592 570 530 504 418 371 301 226 206 169 122 105 67 49	82, 059 29, 061 33, 111 31, 694 37, 283 30, 870 30, 612 28, 002 24, 062 24, 062 24, 979 21, 551 17, 109 15, 434 13, 448 11, 667 8, 920 6, 846 4, 747 4, 262 2, 770 1, 964 4, 747 1, 964 1, 545 8, 876 546	
	1 1 1 1 4 2 5 6 4 9 16 19 24 25 32 34 4 55 68 65 68 65 92 95 148 240 220 307 220 317	\$36 11 26 80 32 130 1132 90 190 414 385 651 709 714 1,055 1,195 1,261 1,276 2,883 1,776 2,883 1,776 2,883 1,776 4,893 1,774 4,909 7,431 11,543	63	684 619 694 683 812 679 678 606 659 592 570 530 504 418 371 301 286 206 169 122 105 67 49	82, 059 29, 061 33, 111 31, 694 37, 283 30, 870 30, 612 27, 024 28, 009 26, 702 24, 062 22, 979 21, 551 17, 109 15, 434 13, 448 11, 657 8, 920 6, 846 4, 747 4, 262 2, 770 1, 964 1, 545 876 546 6431	
	1 1 1 4 2 5 6 4 9 16 19 24 25 32 34 44 55 68 68 68 68 68 92 92 95 139 148 210 307 290 317 348	\$36 11 26 80 32 130 1132 90 190 414 385 651 709 714 1,055 1,195 1,261 1,276 2,883 1,776 2,883 1,776 2,883 1,776 4,893 1,774 4,909 7,431 11,543	63	684 619 604 683 812 679 678 606 659 592 570 530 504 418 371 286 206 169 122 105 67 41 23 10 2	82, 059 29, 061 33, 111 31, 694 37, 283 30, 870 30, 612 27, 024 28, 009 26, 702 24, 082 22, 979 21, 551 17, 109 15, 434 13, 448 11, 657 8, 920 6, 846 4, 747 4, 262 2, 770 1, 964 11, 545 876 646 431 100	
	1 1 1 1 4 2 5 6 4 9 16 19 24 25 34 4 55 68 68 65 92 95 148 210 307 2317 348 348 348 348 348 348 348 348 349 349 349 349 349 349 349 349 349 349	\$36 111 26 80 32 130 1132 90 190 414 385 651 709 714 1,055 1,195 1,261 1,276 1,283 1,776 3,043 4,374 4,909 7,431 11,543 1	63	684 619 604 683 812 679 678 606 659 592 570 530 504 418 371 286 206 169 122 105 67 41 23 10 2	82, 059 29, 061 33, 111 31, 694 37, 283 30, 870 30, 612 27, 024 28, 002 24, 082 22, 972 21, 551 17, 1964 434 13, 448 11, 657 8, 920 6, 846 4, 747 4, 262 2, 770 1, 964 1, 545 546 641 100 1447	
	1 1 1 1 4 2 5 6 4 9 16 19 24 25 32 34 44 55 68 68 68 68 92 95 148 210 307 290 317 348 382 482 482 482 482 482 482 482 482 482 4	\$36 111 26 80 32 130 1132 90 190 414 385 651 709 714 1,055 1,195 1,261 1,276 3,043 1,776 3,043 1,776 1,483 1,776 3,043 1,537 1,537 1,543 11,54	63	684 619 604 683 812 679 678 606 659 592 570 530 504 418 371 286 206 169 122 105 67 41 23 10 2	82, 059 29, 061 33, 111 31, 694 37, 283 30, 870 30, 612 28, 009 26, 702 24, 082 22, 979 21, 551 17, 109 15, 434 13, 448 11, 657 8, 920 6, 846 4, 747 4, 262 2, 770 1, 964 11, 964 431 100 147 91	
	1 1 1 1 4 2 5 6 4 9 16 19 24 25 32 34 4 55 68 66 92 95 139 148 210 307 290 291 348 210 348 210 348 210 348 210 348 348 348 348 348 348 348 348 348 348	\$36 111 26 80 32 130 1132 90 190 414 385 651 709 714 1,055 1,195 1,261 1,276 3,043 1,776 3,043 1,776 1,483 1,776 3,043 1,537 1,537 1,543 11,54	63	684 619 694 683 812 679 678 606 659 592 570 530 504 418 371 301 286 206 169 122 105 67 49	82, 059 29, 061 33, 111 31, 694 37, 283 30, 870 30, 612 28, 009 26, 702 24, 082 22, 979 21, 551 17, 109 15, 434 13, 448 11, 657 8, 920 6, 846 4, 747 4, 262 2, 770 1, 964 11, 964 431 100 147 91	and mark
	1 1 1 1 4 2 5 6 4 9 16 19 24 32 34 44 55 68 68 68 68 68 92 91 148 210 307 290 317 290 348 348 348 455 481 482 482 482 483 484 484 485 486 486 486 486 486 486 486 486 486 486	\$36 111 26 80 32 130 132 90 141 4385 651 1,055 1,105 1,601 2,112 1,883 1,776 2,836 3,043 1,874 4,909 7,431 11,537	63	684 619 604 683 812 679 678 606 659 592 570 530 504 418 371 301 286 206 169 122 105 67 49 41 23 13 10 24 41 22 22	82, 059 29, 061 33, 111 31, 694 37, 283 30, 870 30, 612 27, 024 28, 009 26, 702 24, 062 22, 979 21, 551 17, 109 15, 434 13, 448 11, 657 8, 920 6, 846 4, 747 4, 262 2, 770 1, 964 4, 747 1, 964 4, 747 1, 964 4, 747 4, 262 4, 747 1, 964 4, 747 4, 262 6, 846 431 100 147 91 45 70	See one
	1 1 1 1 4 2 5 6 4 9 16 19 24 25 32 34 4 55 68 66 92 95 139 148 210 307 290 291 348 210 348 210 348 210 348 210 348 348 348 348 348 348 348 348 348 348	\$36 111 26 80 32 132 90 190 414 385 661 709 714 1,055 1,061 2,112 1,883 1,776 2,336 3,043 4,374 4,909 7,431 11,543	63	684 619 604 683 812 679 678 606 659 592 570 530 504 418 371 286 206 169 122 105 67 41 23 10 2	82, 059 29, 061 33, 111 31, 694 37, 283 30, 870 30, 612 28, 009 26, 702 24, 082 22, 979 21, 551 17, 109 15, 434 13, 448 11, 657 8, 920 6, 846 4, 747 4, 262 2, 770 1, 964 11, 964 431 100 147 91	

<sup>&</sup>lt;sup>1</sup> Includes voluntary annuities continued to survivors.

CIVIL SERVICE RETIREMENT AND DISABILITY FUND

37

Table 11.—The number and monthly annuities of survivor annuitants on the roll, classified by age as of June 30, 1952—survivors of deceased annuitants — Con.

#### ALL OTHERS

	Men		Women			Mon		Women	
Age	Num- ber	Monthly annuities	Num- ber	Monthly annuities	Age	Num- ber	Monthly annuities	Num- ber	Monthly annuities
9	1 1 1 1 1 1 2 3 3 3 2 2 3 3 1 1 1 1 1 1	98 176 365 284 494 320	2 2 1 2 2 2 2 4	31 103	63	13 12 12 12 8 11 6 5 6 1 1 1 2 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2	26 23 51		\$24 97 27 27 66 291 270 96 32 
62	5			55	Total	372	10,016	58	2, 16

<sup>1</sup> Includes voluntary annuities continued to survivors.